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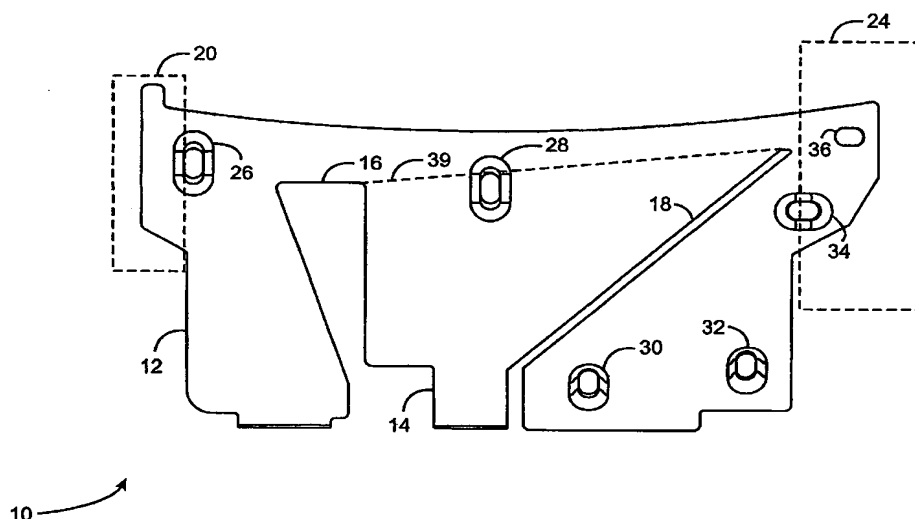
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[Continued on next page]

(54) Title: MULTIPLE-BAND ANTENNA WITH SHARED SLOT STRUCTURE



(57) Abstract: A multiple-band antenna having first and second operating frequency bands is provided. The antenna includes a first patch structure associated primarily with the first operating frequency band, a second patch structure electrically coupled to the first patch structure and associated primarily with the second operating frequency band, a first slot structure disposed between a first portion of the first patch structure and the second patch structure and associated primarily with the first operating frequency band, and a second slot structure disposed between a second portion of the first patch structure and the second patch structure and associated with both the first operating frequency band and the second operating frequency band. A mounting structure for the multiple-band antenna is also provided, and includes a first surface and a second surface opposite to and overlapping the first surface. The first and second patch structures are mounted to the first surface, and a feeding point and a ground point, respectively connected to the first and second patch structures, are mounted to the second surface.

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